

→ file

November 17, 1981

Mr. Robert L. Kersey
Dr. Preston H. Leake
Dr. R. A. Sanford
Dr. Fred J. Schultz
Dr. Robert B. Seligman
Mr. J. A. Giles

Gentlemen:

Enclosed is the test data obtained for the 25th pick-up using the Phipps & Bird CO smoking machine. Tar, nicotine, and carbon monoxide averages for those brands tested both in this and in the previous sample are 12.1, 0.93, and 12.1 mg/cigarette respectively. Tar and nicotine are 0.5 and 0.05 mg lower while CO is 0.1 mg higher.

This is the first test in which ultra-low delivery brands were included; several of which, are too low to give meaningful measurements using current methods. The negative tar numbers and the absolute value of their statistics reflect this while zero nicotine and their statistics indicate values below our instrumental limit of 0.02 mg/cig. Negative values are not reported in the data summary sections.

Brands were ranked by computer using values to four decimal places. In rare cases, where ties still existed, the brand with the lowest standard deviation was ranked first.

Three brands; Carlton 100's, filter menthol, hard pack; Carlton 120's, soft pack; and Carlton 120's menthol, soft pack; were sampled after testing was underway and were analyzed after the other brands. Detailed results appear at the end of the per cigarette and per puff data.

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For brands common to both this test and the previous one, the results of statistically testing for significant differences are attached. A plus indicates an increase since the last test; a minus, a decrease. How many of these changes are accounted for by test variation, real brand change, or some other factor is unknown.

Very truly yours,

William L. Steele

WLS/ml

Enclosures

xc w/encl Mr. Horace Kornegay
 W. Brooks George
 Dr. Richard Manning
 Mr. Ralph L. Rossi
 Mr. Allan Topol

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